

Title (en)  
SLOTTED CAM CONTROL SYSTEM

Title (de)  
GESCHLITZTES NOCKENSTEUERUNGSSYSTEM

Title (fr)  
SYSTEME DE COMMANDE A CAME A FENTE

Publication  
**EP 0871583 A1 19981021 (EN)**

Application  
**EP 96945801 A 19961230**

Priority  
• US 9620790 W 19961230  
• US 58766696 A 19960117

Abstract (en)  
[origin: WO9726185A1] The present invention provides a slotted cam control system for controlling pitch angles of fan blades (75) of a relatively low-pressure-ratio fan (27) within a fuselage of a helicopter (11). A force-receiving arm (65) of a slotted cam control system receives left and right forces from corresponding left and right foot rudder pedals. An end of the force-receiving arm (65) fits into a V-shaped cam. Next, the end of the force-receiving arm (65) passes the fulcrum of the V-shaped slot (69) and passes along a second predetermined distance of the V-shaped slot (69) in order to increase the pitch angles of the fan blades (75) as the opening of the direct jet thruster (33) corresponding to the depressed foot rudder pedal. A force-applying arm (71) is connected to the end of the force-receiving arm (65) that moves within the V-shaped slot (69), and this force-applying arm (71) applies to each of the fan blades (75) to change the pitch angles.

IPC 1-7  
**B64C 13/04**

IPC 8 full level  
**B64C 13/32** (2006.01); **B64C 27/82** (2006.01)

CPC (source: EP KR US)  
**B64C 13/04** (2013.01 - KR); **B64C 13/32** (2013.01 - EP US); **B64C 27/82** (2013.01 - EP US); **B64C 2027/8245** (2013.01 - EP US);  
**Y10T 74/18992** (2015.01 - EP US)

Designated contracting state (EPC)  
CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)  
**WO 9726185 A1 19970724**; AU 1821797 A 19970811; AU 715550 B2 20000203; CA 2241940 A1 19970724; EP 0871583 A1 19981021;  
EP 0871583 A4 20000712; IL 125318 A0 19990312; JP 2000503275 A 20000321; KR 19990077327 A 19991025; US 5727757 A 19980317

DOCDB simple family (application)  
**US 9620790 W 19961230**; AU 1821797 A 19961230; CA 2241940 A 19961230; EP 96945801 A 19961230; IL 12531896 A 19961230;  
JP 52601097 A 19961230; KR 19980705474 A 19980716; US 58766696 A 19960117